

AMSAT News Service Weekly Bulletins

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AMSAT NEWS SERVICE

ANS-318

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on <http://www.amsat.org> publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

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ANS-318 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 318.01

From AMSAT HQ KENSINGTON, MD.

DATE November 13, 2016

To All RADIO AMATEURS

BID: \$ANS-318.01

CAMSAT launched CAS-2T Technical Verification Satellite

CAS-2T a technical verification satellite for CAMSAT CAS-2 series amateur radio satellite launched at 23:42, 9 November 2016, It is an 2U Cubsat and will not be separated from the final stage of rocket, so the orbital life may be 10 to 30 days since the final stage of rocket will be re-entry atmosphere.

Amateur radio payloads:

CW Telemetry Beacon:435.710MHz

FM Transponder Uplink:145.925MHz

FM Transponder Downlink:435.615MHz

Launch vehicle: CZ-11(Y2) solid rocket

Launch time: 23:42, 9-Nov-2016

Epoch time: +620.615 seconds

Inclination degree: 97.400985 degrees

RA of node degree:

Eccentricity: 1.77E-4

Perigee degree: 328.206969 degrees

Mean anomaly degree: 198.226766 degrees

Period: 5685.564 seconds
Speed: 7607.496391 m/s
Longitude: 93.693693E
Latitude: 13.531945N

[ANS thanks Alan, BA1DU, for the above information]

Listening to the 2016 AMSAT Annual Meeting

As part of the "AMSAT Symposium @ Sea", the AMSAT Annual Meeting will take place on Sunday, 13 NOV 16 at 1300 CST on board Carnival Liberty as the ship transits back to Galveston, TX from Progreso, Mexico. The Annual Meeting includes an overview of the "State of AMSAT" by the AMSAT President followed by a Q&A whereby meeting attendees are encouraged to ask questions addressed to the Senior Leadership Team as well as to the Board of Directors. The meeting concludes with our recognition of AMSAT volunteers who have made a significant impact on behalf of AMSAT in 2016 through their efforts in support of AMSAT Engineering, Field Operations, AMSAT Journal, Human Spaceflight, Educational Relations, Dayton Hamvention, and Operations as well as Presidential Recognition.

The original intent was to make the Annual Meeting available via Echolink so that AMSAT members not attending the AMSAT Symposium @ Sea could participate.

At prior Annual Meetings, Echolink was used to provide access to the Annual Meeting for AMSAT members not attending Symposium with a reasonably good level of interest by those that have used this connection to hear the President's presentation and participate in the Q&A.

Given that internet access on board Carnival Liberty will not provide reliable EchoLink connections, A live EchoLink connection for this year's Annual Meeting will not be available. However, the meeting will be recorded and the expectation is to have the recording available through the AMSAT website after the conclusion of the cruise and an announcement will be made when it is available.

[ANS thanks AMSAT President Barry Baines, WD4ASW, for the above information]

Special Awards for the 2016 AMSAT Symposium at Sea

Two unique awards are being offered during AMSAT's 2016 Space Symposium being held November 10-14, 2016 aboard the Carnival Liberty cruise ship. The Landlubbers Award is available to amateur radio operators who complete a two-way satellite QSO with any Symposium attendee aboard the Carnival Liberty. The Sea Legs Award is available to amateur radio operators who complete a two-way satellite QSO while sailing aboard the Carnival Liberty during the Symposium. The awards

will be made available in PDF format for self-printing. Submit logs to Paul Stoetzer, N8HM, via email to n8hm at amsat.org to apply for the awards.

[ANS thanks Clayton, W5PFG, for the above information]

E079/FUNcube-3 Enters Service for the Amateur Radio Community

AMSAT-UK and AMSAT-NL working with ISIS BV are delighted to announce that the FUNcube U/V transponder, on the 2U CubeSat QB50p1, has now been activated with a regular schedule.

Due to power budget constraints the transponder cannot be operational 24/7 and an orbit specific schedule has been developed. The transponder will commence operation 27 minutes after the spacecraft enters sunlight and will stay on for a period of 25 minutes. This schedule may be modified over the forthcoming weeks as a result of experience.imagesCAAFR7EH

The transponder frequencies are:

Uplink: 435.047-435.077 MHz LSB
Downlink: 145.935-145.965 MHz USB

Output power is approximately 400mW.

Qb50p1 was launched in June 2014, as a collaborative effort led by the von Karman Institute and ISIS-BV, into a sun synchronous 620x600 km polar orbit as a precursor spacecraft for the QB50 mission. The primary function of the satellite was to test a number of the systems and science payloads. This phase has now been completed and we are grateful to VKI and ISIS BV for carrying this transponder into space and, again, to ISIS, for developing and uploading the new, required, flight code.

[ANS thanks AMSAT-UK and AMSAT-NL for the above information]

Ham Radio Now Webcast Sunday Seminar From the ARRL/TAPR DCC

Team Leader for the design and execution of the AMSAT Ground Terminal Michelle Thompson W5NYV (@abraxas3d) and AMSAT Board Member Bob McGwier, N4HY, attended the 2016 ARRL/TAPR Digital Communications Conference. Both presented the Sunday Seminar.

In these videos Michelle and Bob speak about the spectrum and cognitive radio. Michelle expects technology to really disrupt the radio art in the near future.

The Sunday Seminar spanned 3 hours. Gary Pearce, KN4AQ, presents the entire seminar video via his Ham Radio Now webcast. The 3 parts can viewed at these links:

Part 1: <https://www.youtube.com/watch?v=q0V7jab67B4>
 Part 2: https://www.youtube.com/watch?v=3V_u2vEY2CY
 Part 3: https://www.youtube.com/watch?v=ciX5Jjn_Ipc

[ANS thanks Gary Pearce, KN4AQ, Ham Radio Now and TAPR for the above information]

JAXA to Launch Satellites with Ham Radio Payloads to ISS

Mineo Wakita JE9PEL reports on the AMSAT Bulletin Board that six satellites with amateur radio payloads are to be launched to the International Space Station in December.

JAXA announced to the public November 7 that seven nano satellites are to be installed in H-IIB Transfer Vehicle "KOUNOTORI" (HTV) to be launched in December. Satellites are only about 1U-3U in size and will conduct experiments aimed at realizing the space elevator which is expected to facilitate the movement of Earth and Universe in the future. It's the first time to launch in JAXA with seven satellites at a time.

HTV6 Launch: 1326 UT, Dec. 9, 2016 at the Tanegashima Space Center, Japan.

	Downlink	Beacon	Mode
A0BA-VeloxIII	437.375	437.375	1k2 AFSK,CW
ITF-2	437.525	437.525	1k2 FM,CW
STARS-C (Mother)	437.405	437.245	1k2 FM,CW
STARS-C (Daughter)	437.425	437.255	1k2 FM,CW
WASEDA-Sat3	437.290	437.290	1k2 PCM-FSK,CW
TuPod	437.425	437.425	1k2 GMSK,CW

H-II Transfer Vehicle "KOUNOTORI" (HTV), JAXA
<http://global.jaxa.jp/projects/rockets/htv/index.html>

A0BA-VeloxIII Kyusyu Institute of Technology
<http://aoba2016.blog.fc2.com/>

EGG University of Tokyo / Nihon University
<http://repository.exst.jaxa.jp/dspace/bitstream/a-is/2961/1/SA6000021010.pdf>

FREEDOM Tohoku University / Nakashimada Engineering Works, Ltd
http://www.tohoku.ac.jp/japanese/newimg/pressimg/tohokuuniv-press_20140926_01web.pdf

ITF-2 University of Tsukuba
<http://yui.kz.tsukuba.ac.jp/en/>

TuPOD Gauss Srl
<http://www.gaussteam.com/tupod-almost-ready-for-launch/>

STARS-C Shizuoka University
<http://stars.eng.shizuoka.ac.jp/english.html>

WASEDA-SAT3 Waseda University
<http://www.miyashita.mmech.waseda.ac.jp/Waseda-Sat3/>

[ANS thanks Mineo, JE9PEL, for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

Primary and secondary school students are eligible for membership at one-half the standard yearly rate. Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status. Contact Martha at the AMSAT Office for additional student membership information.

73,
This week's ANS Editor,
Lee McLamb, KU4OS
ku4os at amsat dot org